



TEST REPORT



Report No. : KES-EM251380

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KES Co., Ltd.

#3002, #3503, #3701, 40, Simin-daero365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea
Tel : +82-31-425-6200, Fax : +82-31-381-3838

1. Client

Applicant : Hanwha Vision Co., Ltd

Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Sample Description

Product name : NETWORK THERMAL CAMERA

Model/Type No. : TNO-C3080T

Variant Model : TNO-C3082T, TNO-C3060T, TNO-C3062T

Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED
2. D-TECH CO.,LTD.

Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended Area, Nam Son Ward, Bac Ninh City, Bac Ninh Province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do, Korea (Suwon Industrial Complex)

3. Date of Receipt : Apr. 16, 2025

4. Test date : Apr. 30, 2025 ~ May. 01, 2025

5. Date of Issue : Jun. 13, 2025

6. Test Results : In Compliance

Tested by

Reviewed by

Seong Jun, Park
EMC Test Engineer

Dong Hun, Jang
EMC Technical Manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.

**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
Jun. 13, 2025	KES-EM251380	Issued

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1.0 General Product Description

Main Specifications of EUT are:

TNO-C3080T	
Video	
Imaging Device	Uncooled micro bolometer (Spectral range: 8~14um)
Resolution	768x576, 384x288(original)
Max. Frame rate	H.265/H.264/MPEG: Max. 30fps
NETD	< 20mk
Pixel Size	17um
Min. Illumination	None
Video Out	USB, Micro USB Type B, 768x576 for installation
Video Transmission Distance	None
Lens	
Focal Length (Zoom Ratio)	60mm fixed focal
Max. Aperture Ratio	F1.2
Angular Field of View	H: 4.2° / V: 4.7° / D: 7.7°
FOV: 0.283 mrad	
Min. Object Distance	88.3m
Focus Control	Fixed
Lens Type	athermalized
Mount Type	None
Optional Lens	None
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~350° / 0°~90° / 0°~350°
Operational	
Camera Title	Displayed up to 88 characters
Motion Detection	Sea, Spout, polygonal zones
Privacy Masking	Sea: Rectangle zone - color: Gray, Black, White
Video Rotation	Flip, Mirror, Halfway view(50°/270°)
Analytics	Classified object type: Person/Vehicle Support BestShot Analytics events based on AI engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Looking/Intrusion/Enter/Exit) Analytics events - Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear)
Business Intelligence	None
Serial Interface	RS-485
Alarm I/O	2 configurable I/O ports - Support extra alarm I/O via optional EPM-4110 I/O box
Alarm Triggers	When alarm trigger occurred - Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription
Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP/SFTP - File upload(video clip): FTP/SFTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: RT2 preset - MQTT publication
Audio Streaming	None
Audio In	Selectable(mic in/line in)
Audio Out	Line out
Color Palettes	Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom, Hybrid palettes

Radiometry	
Temperature Detect Range	None
Temperature Accuracy	None
Temperature Detection	None
Additional	Temperature change detection (3 areas)
Network	
Ethernet	Metal shielded RJ-45 10/100/1000BASE-T
Video Compression	H.265/H.264, Main/Mainline/High, MJPEG
Audio Compression	G.711 u-law / G.728 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726, 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC/LC, 48Kbps at 16KHz
Smart Codec	Manual/Sea area, WiseStream2, WiseStream3(Based on AI engine)
Video Quality Adjustment	None
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast/UDP / Multicast Multiple streaming(Up to 10 profiles)
GB support (VOP, Peer-to-peer, SR-PBX integration)	None
Security	None
Application Programming Interface	ONVIF Profile S/G/T/M GUNA/HTTP API Hanwha Vision Open Platform
Security	
OS / Firmware Protect	Secure boot, Signed firmware, Firmware encryption
User authentication	Digest Authentication, Prevent brute-force attack
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-FAST, MSCHAPv2)
Secure Communication	HTTPS, SRTT, WSS(Websocket secure)
Access Control	Access control based on IP address
Data Protect	Authentication information encryption, ZIP compression encryption
Audit	User Access System/Event log management
Device ID	Device Certificate(Hanwha Private Root CA)
Secure Storage	Secure element, Secure partition encrypt
Security Certificate	Secure element(RPS 140-3 level3, CC EAL6+)
General	
Webpage Language	English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Web Viewer	None
Edge Storage	Micro SD/SDHC/SDXC, Total Max: 1TB
Memory	32GB RAM, 64GB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+60°C(-40°F~+140°F), +14°C~+185°F(MAX) based on / 0~95% RH(non-condensing)
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / Less than 95% RH
Input Voltage	PoE IEEE802.3af Class3, 12VDC
Power Consumption	PoE Max 10.0W, typical 7W 12VDC Max 9.4W, typical 7.7W

Mechanical	
Color / Material	White / Aluminum + PC
RAL Code	RAL9003
Product Dimensions / Weight	ø107.3 x 275mm(ø4.22/10.83"), 2340g(5.22 lb)
Compatible Conduit hole / Gangbox	Conduit hole : SBP-060BA(Sold separately) Gangbox : single, double, 4" octagon, 4" square
Backbox	Included
Ceiling Mount (Assy)	None
Wall Mount	None
Pole Mount	SBP-180PMW, SBP-300PMW2
In-ceiling Mount	None
Parapet Mount	None
Corner Mount	SBP-300KMW1
Tilt Mount	None
Housing (Box)	None
Cabinet	SBP-300NBW
Gang Plate	None
Conduit Adaptor	SBP-060BA
Other Compatible Models	None



1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 240 V, 50 Hz ☒ PoE

1.2 Variant Model Differences

- 1) TNO-C3082T : Basic model and SW difference
- 2) TNO-C3060T: Fixed Lens (non-electronic/focal distance specification difference) from existing Model
- 3) TNO-C3062T: Fixed Lens (non-electronic/focal distance specification difference) and SW difference from base model

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK THERMAL CAMERA	TNO-C3080T	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adapter	2ACB022F	-	Channel Well Technology(Guangzhou) Co., Ltd.	-
PoE Injector	GS728TPP	-	NETGEAR INC	-
Notebook	NT500R5W	-	Samsung Eelcotronics Co., Ltd.	-
Notebook Adapter	PA-1400-96	-	LITE-ON TECHNOLOGY CHANGZHOU CO.,LTD	-
Micro SD Card	-	-	SanDisk	-
LED Alarm	PRO-SL	-	SENSOR PRO	-
Button Alarm	-	-	-	-
Earphone	-	-	-	-
Smartphone	SM-N950N	-	Samsung Eelcotronics Co., Ltd.	-
Controller	SPC-1010	-	SamSung Techwin Co.,Ltd.	-
Controller Adpater	AP-12005A	-	A Power Co., Ltd.	-



1.6 External I/O Cabling

■ mode 1

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK THERMAL CAMERA (EUT)	2 Pin	Adapter	2 Pin	1.6	U
	Micro SD Card Slot	Micro SD Card 1	Micro SD Card Slot	-	-
	RJ-45 (LAN)	Notebook	RJ-45 (LAN)	3.1	S
	Alarm IN (2 PIN)	Button Alarm	Alarm OUT	3.1	U
	Alarm OUT (2 PIN)	LED Alarm	Alarm IN	3.1	U
	Audio IN	Smartphone	3.5 mm	1.0	U
	Audio OUT	Earphone	3.5 mm	1.4	U
	RS-485 (2 PIN)	Controller	2 Pin	3.1	U
Notebook	DC Jack	Notebook Adapter	DC Jack	1.6	U
Controller	DC Jack	Controller Adapter	DC Jack	1.0	U

* Unshielded=U, Shielded=S

■ mode 2

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK THERMAL CAMERA (EUT)	RJ-45 (PoE)	PoE Injector	RJ-45 (PoE)	3.1	S
	Micro SD Card Slot	Micro SD Card	Micro SD Card Slot	-	-
	Alarm IN (2 PIN)	Button Alarm	Alarm OUT	3.1	U
	Alarm OUT (2 PIN)	LED Alarm	Alarm IN	3.1	U
	Audio IN	Smartphone	3.5 mm	1.0	U
	Audio OUT	Earphone	3.5 mm	1.4	U
	RS-485 (2 PIN)	Controller	2 Pin	3.1	U
Notebook	DC Jack	Notebook Adapter	DC Jack	1.6	U
Controller	DC Jack	Controller Adapter	DC Jack	1.0	U

* Unshielded=U, Shielded=S



1.7 EUT Operating Mode(s)

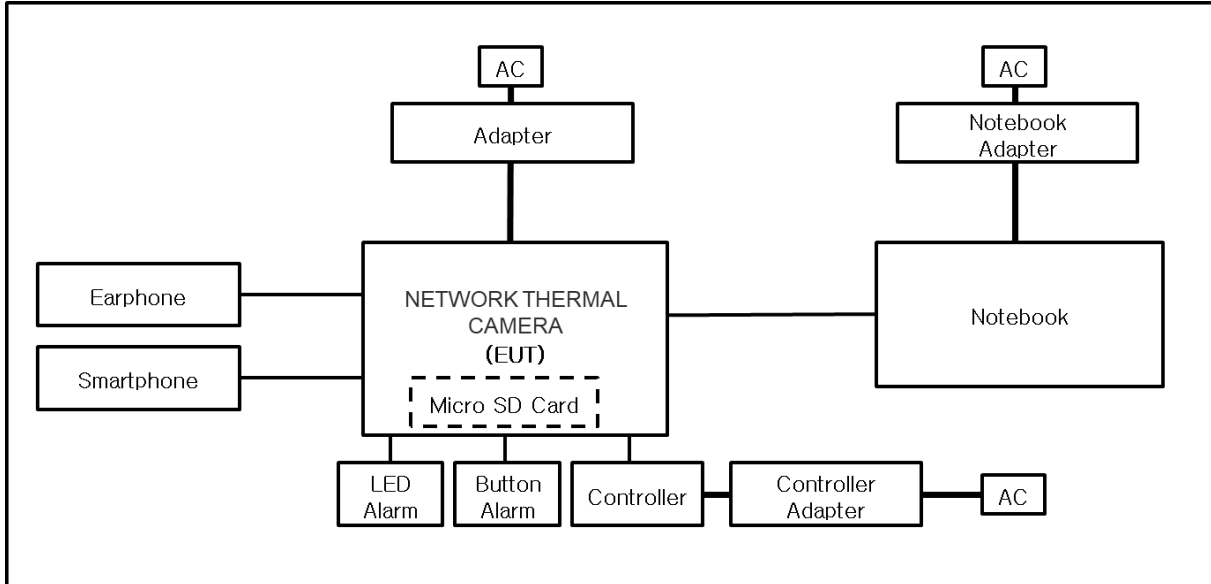
Test mode		Normal operating
mode 1	Adapter	- IP from the test equipment to the laptop was tested by Ping Test on the laptop. - The test was conducted by checking whether the camera image was output normally in the Web Viewer. - After the test, I checked whether the video was recorded normally on the Micro SD Card.
mode 2	PoE	

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	HANWHA VISION VIETNAM COMPANY LIMITED

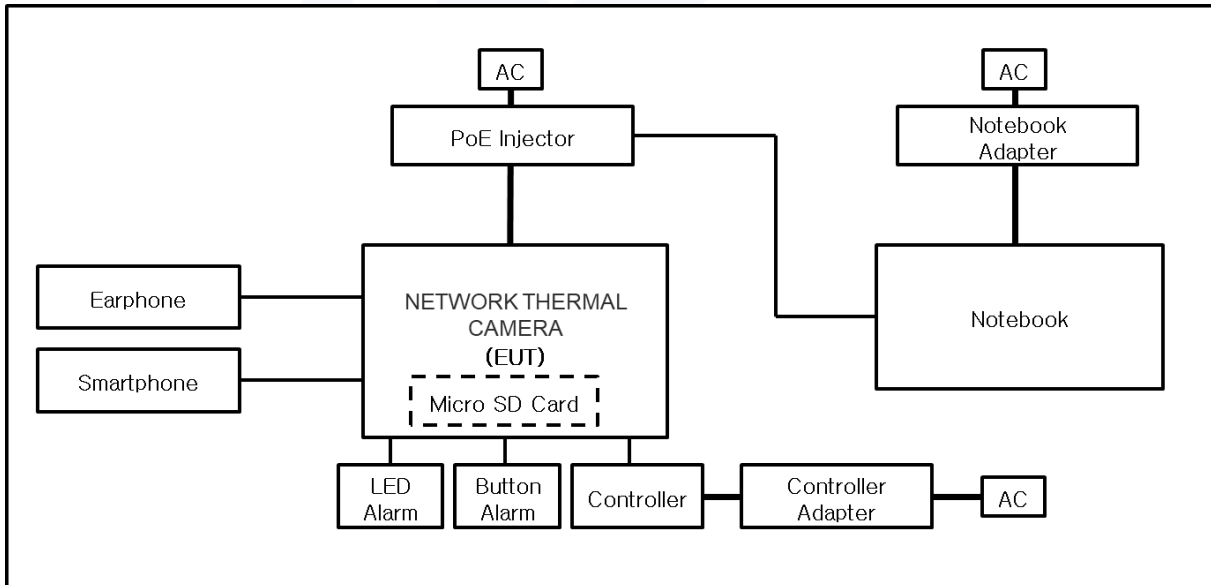


1.8 Configuration

■ mode 1



■ mode 2



**1.9 Remarks when standards applied**

Micro 5 Pin ports are not used and have not been tested.

1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0008



2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **AS/NZS CISPR 32:2015 AMD 1:2020**

☒ Class A

☐ Class B





2.1 Conducted Emissions at Mains Power Ports

Test Date

May. 01, 2025

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025
☒	LISN	ENV216	R & S	101786	01, 09, 2026
☒	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025

Test Conditions

Temperature: (23,6 ± 0,1) °C

Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks- See Appendix A for test data.- The LAN port is regarded as a wired communication network port and power-related ports are not tested.



2.2 Conducted Emissions at Telecommunication Ports

Test Date

May. 01, 2025

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025
☒	LISN	ENV216	R & S	101786	01, 09, 2026
☒	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025
☒	ISN	ISN S8	SCHWARZBECK	ISN-S8-0019	02, 27, 2026

Test Conditions

Temperature: (23,6 ± 0,1) °C
Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

RemarksSee Appendix A for test data.



2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Apr. 30, 2025

Test Location☐ OPEN AREA TEST SITE #2☒ SEMI ANECHOIC CHAMBER #4(10m)**Test Equipment**

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESW8	R & S	101319	03, 24, 2026
☒	AMPLIFIER	SCU 01	R & S	100603	11, 06, 2025
☒	BILOG ANTENNA	VULB 9168	SCHWARZBECK	9168-461	05, 09, 2026
☒	ATTENUATOR	6806.17.A	HUBER+SUHNER	-	02, 13, 2026

Test Conditions

Temperature: (23,3 ± 0,1) °C

Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

RemarksSee Appendix A for test data.



2.4 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

May. 01, 2025

Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	ES10/RE	TOYO Corporation	2022.01.000	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	02, 13, 2026
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 04, 2025
☒	PREAMPLIFIER	8449B	HP	3008A00899	03, 05, 2026
☒	ATTENUATOR	8491B	HP	23094	02, 13, 2026

Test Conditions

Temperature: (23,4 ± 0,1) °C

Relative Humidity: (46,1 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 6 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

- See Appendix A for test data.
- The Average of the test data is the cispr average result.



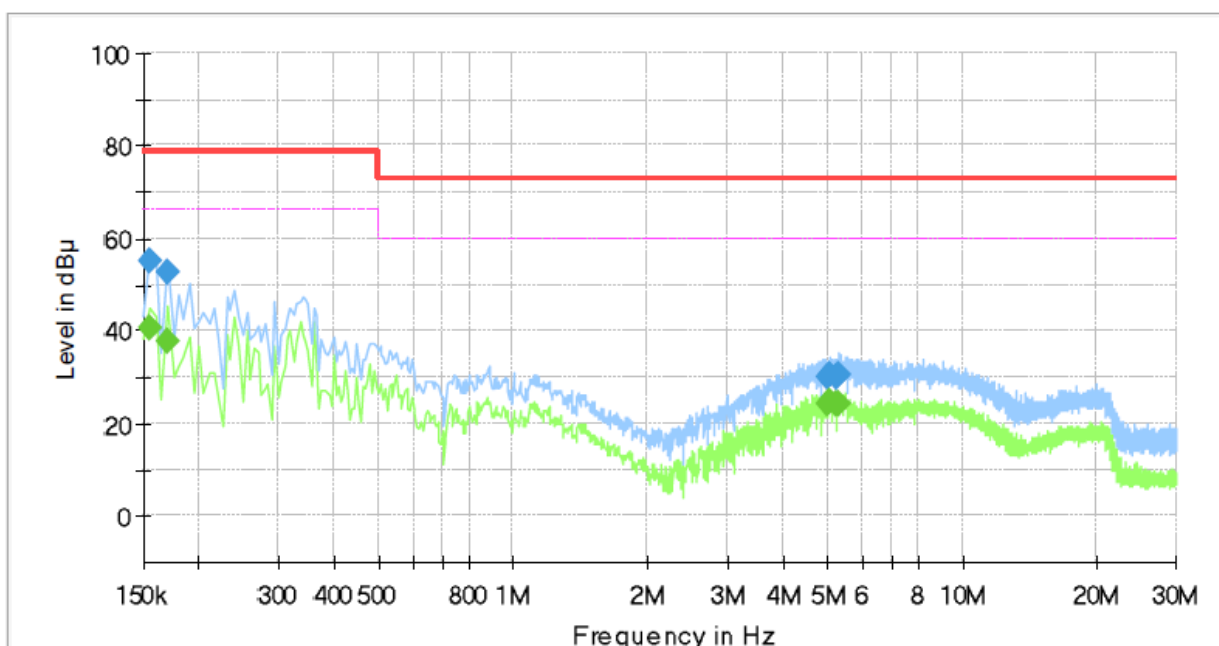
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

■ mode 1

HOT LINE

Test Description: Conducted Emission
Job No.: KES-EM251380
Phase: L
Mode: mode 1
Operator Name: KES



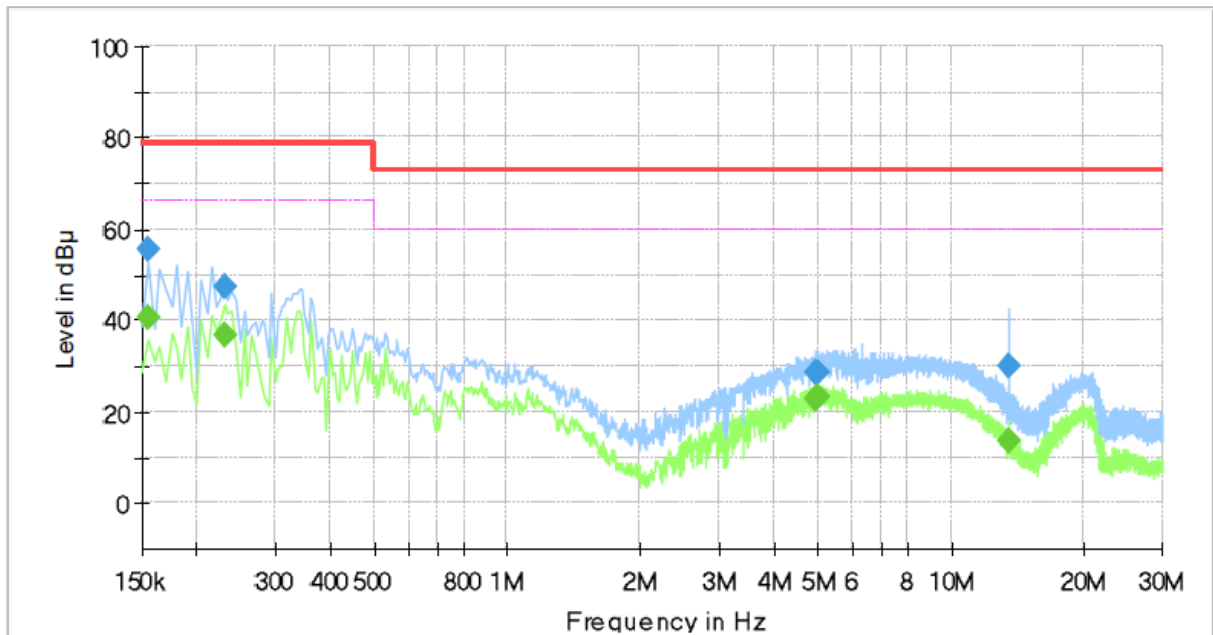
Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	40.44	66.00	25.56	1000.0	9.000	L1	19.5
0.155000	55.15	---	79.00	23.85	1000.0	9.000	L1	19.5
0.170000	---	37.56	66.00	28.44	1000.0	9.000	L1	19.5
0.170000	52.53	---	79.00	26.47	1000.0	9.000	L1	19.5
5.005000	---	24.23	60.00	35.77	1000.0	9.000	L1	19.9
5.005000	30.17	---	73.00	42.83	1000.0	9.000	L1	19.9
5.100000	---	24.74	60.00	35.26	1000.0	9.000	L1	19.9
5.100000	30.45	---	73.00	42.55	1000.0	9.000	L1	19.9
5.220000	---	24.28	60.00	35.72	1000.0	9.000	L1	19.9
5.220000	30.27	---	73.00	42.73	1000.0	9.000	L1	19.9
5.285000	---	24.22	60.00	35.78	1000.0	9.000	L1	19.9
5.285000	30.37	---	73.00	42.63	1000.0	9.000	L1	19.9



NEUTRAL LINE

Test Description: Conducted Emission
Job No.: KES-EM251380
Phase: N
Mode: mode 1
Operator Name: KES

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	40.53	66.00	25.47	1000.0	9.000	N	19.5
0.155000	55.85	---	79.00	23.15	1000.0	9.000	N	19.5
0.230000	---	36.63	66.00	29.37	1000.0	9.000	N	19.5
0.230000	47.34	---	79.00	31.66	1000.0	9.000	N	19.5
4.975000	---	23.02	60.00	36.98	1000.0	9.000	N	19.9
4.975000	28.62	---	73.00	44.38	1000.0	9.000	N	19.9
5.000000	---	23.33	60.00	36.67	1000.0	9.000	N	19.9
5.000000	28.75	---	73.00	44.25	1000.0	9.000	N	19.9
13.560000	---	13.45	60.00	46.55	1000.0	9.000	N	20.2
13.560000	29.88	---	73.00	43.12	1000.0	9.000	N	20.2

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

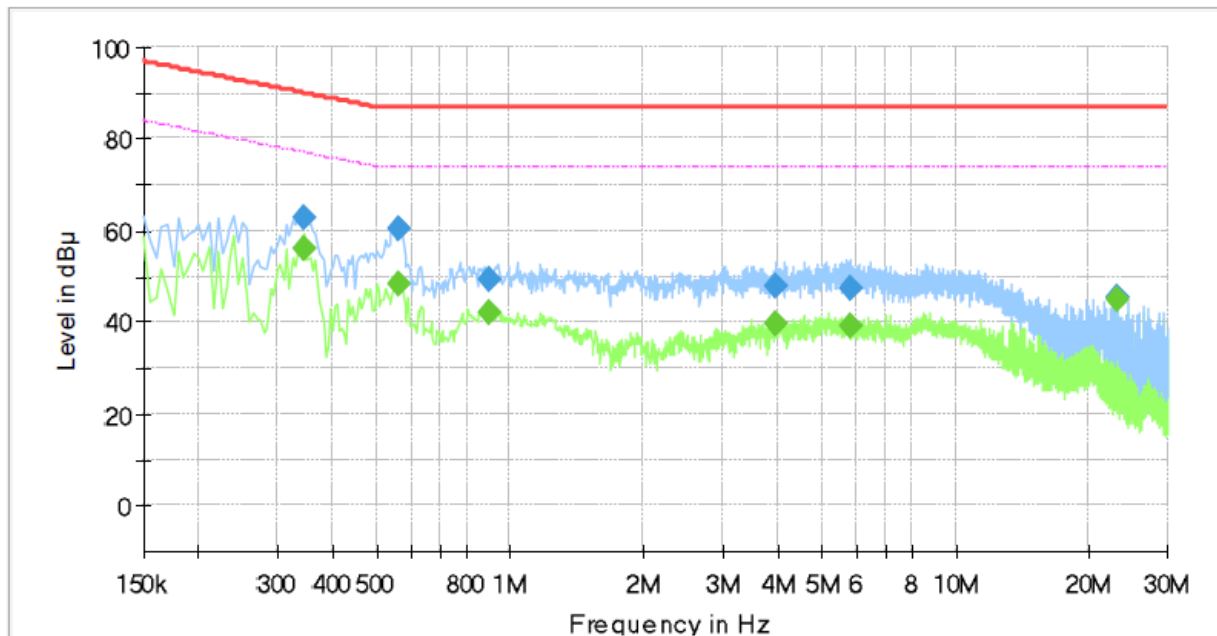
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Conducted Emissions at Telecommunication Ports**

■ mode 1

[1 000 Mbps]

Test Description: Telecommunication Emission
Job No.: KES-EM251380
Mode : mode 1
Speed : 1 000
Operator Name: KES

**Final_Result**

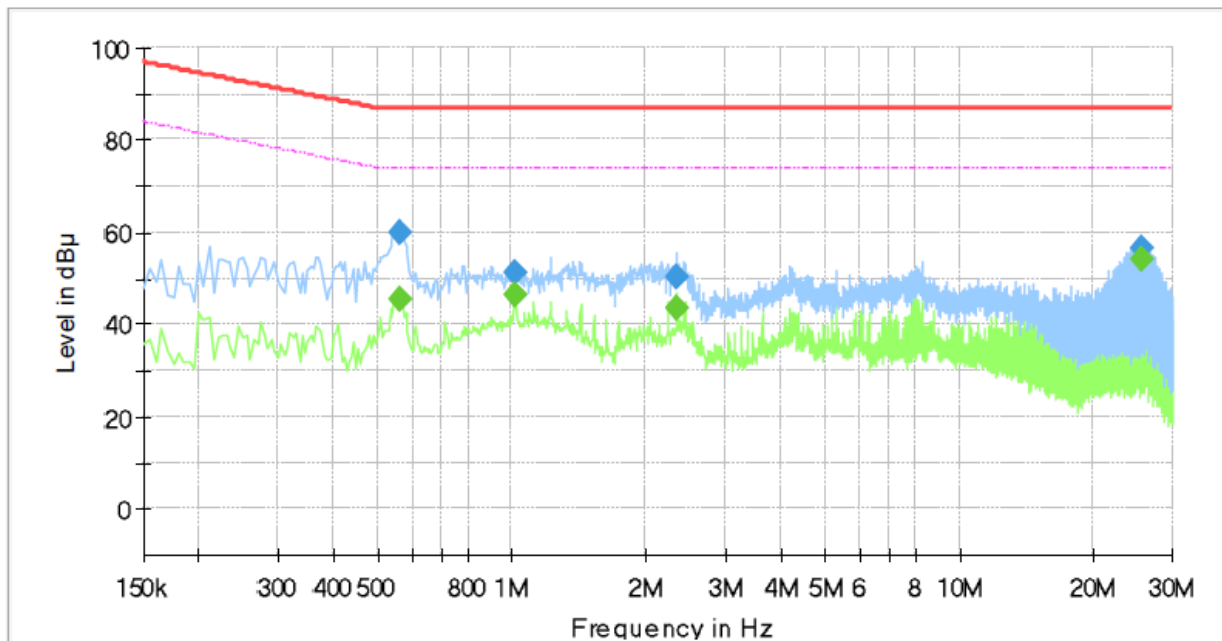
Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.345000	---	56.06	77.08	21.02	1000.0	9.000	Single Line	19.4
0.345000	62.77	---	90.08	27.31	1000.0	9.000	Single Line	19.4
0.560000	---	48.60	74.00	25.40	1000.0	9.000	Single Line	19.4
0.560000	60.45	---	87.00	26.55	1000.0	9.000	Single Line	19.4
0.900000	---	42.12	74.00	31.88	1000.0	9.000	Single Line	19.3
0.900000	49.46	---	87.00	37.54	1000.0	9.000	Single Line	19.3
3.945000	---	39.91	74.00	34.09	1000.0	9.000	Single Line	19.4
3.945000	47.86	---	87.00	39.14	1000.0	9.000	Single Line	19.4
5.805000	---	39.08	74.00	34.92	1000.0	9.000	Single Line	19.5
5.805000	47.30	---	87.00	39.70	1000.0	9.000	Single Line	19.5
23.130000	---	45.12	74.00	28.88	1000.0	9.000	Single Line	20.0
23.130000	45.53	---	87.00	41.47	1000.0	9.000	Single Line	20.0



■ mode 2

[1 000 Mbps]

Test Description: Telecommunication Emission
Job No.: KES-EM251380
Mode : mode 2
Speed : 1 000
Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dB μV)	CAverage (dB μV)	Limit (dB μV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.565000	---	45.64	74.00	28.36	1000.0	9.000	Single Line	19.4
0.565000	59.85	---	87.00	27.15	1000.0	9.000	Single Line	19.4
1.015000	---	46.44	74.00	27.56	1000.0	9.000	Single Line	19.3
1.015000	51.15	---	87.00	35.85	1000.0	9.000	Single Line	19.3
2.335000	---	43.64	74.00	30.36	1000.0	9.000	Single Line	19.3
2.335000	50.48	---	87.00	36.52	1000.0	9.000	Single Line	19.3
25.625000	---	54.28	74.00	19.72	1000.0	9.000	Single Line	20.0
25.625000	56.63	---	87.00	30.37	1000.0	9.000	Single Line	20.0

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

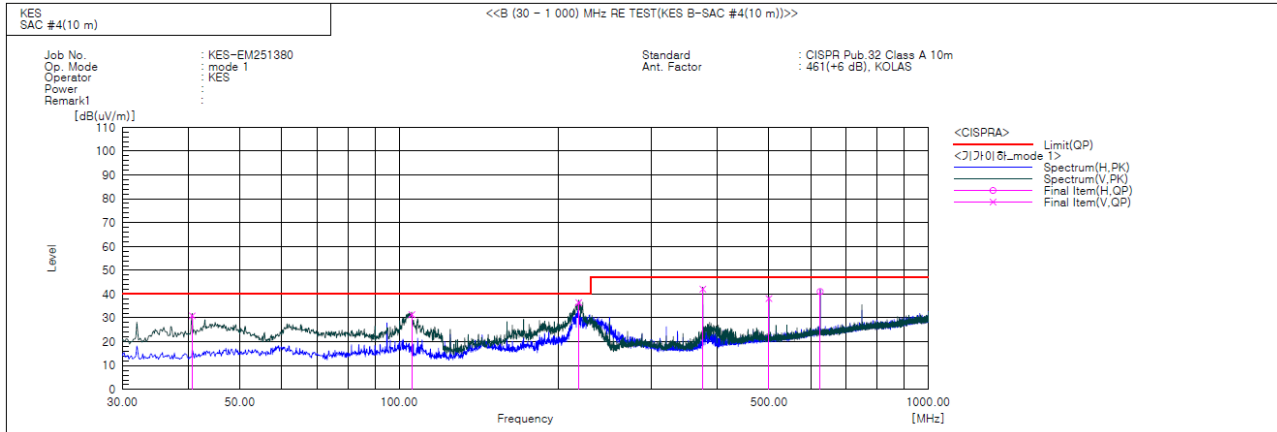
QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (ISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Radiated Electric Field Emissions(Below 1 GHz)**

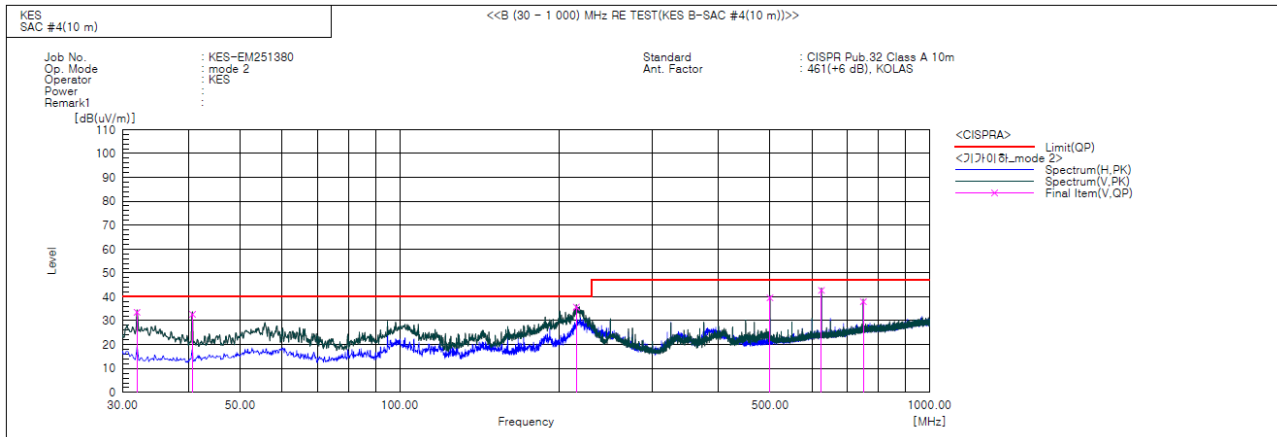
■ mode 1

**Final Result**

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	40.670	V	52.7	-21.8	30.9	40.0	9.1	166.0	209.0	
2	105.660	V	55.4	-24.0	31.4	40.0	8.6	167.0	139.0	
3	218.423	V	57.8	-21.3	36.5	40.0	3.5	146.0	99.0	
4	374.956	V	56.7	-14.6	42.1	47.0	4.9	192.0	37.0	
5	499.965	V	48.2	-10.1	38.1	47.0	8.9	195.0	29.0	
6	624.974	H	47.6	-6.5	41.1	47.0	5.9	397.0	188.0	



mode 2



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	31.940	V	56.0	-22.5	33.5	40.0	6.5	191.0	276.0	
2	40.670	V	54.5	-21.8	32.7	40.0	7.3	164.0	202.0	
3	215.513	V	57.1	-21.4	35.7	40.0	4.3	156.0	323.0	
4	499.965	V	49.7	-10.1	39.6	47.0	7.4	197.0	347.0	
5	624.974	V	49.2	-6.5	42.7	47.0	4.3	190.0	347.0	
6	750.104	V	41.8	-3.8	38.0	47.0	9.0	117.0	18.0	

◆ Calculation

Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

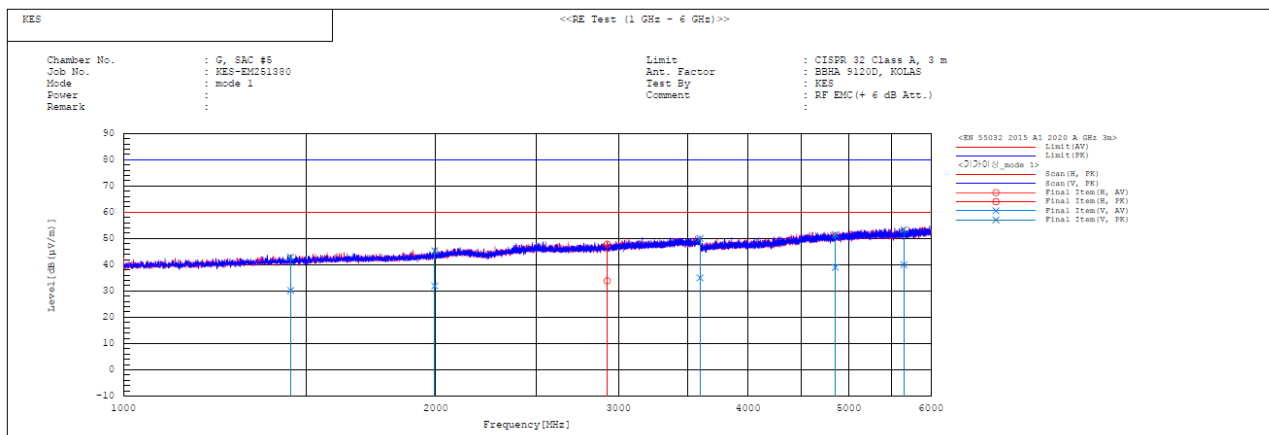
Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

**Radiated Electric Field Emissions(Above 1 GHz)**

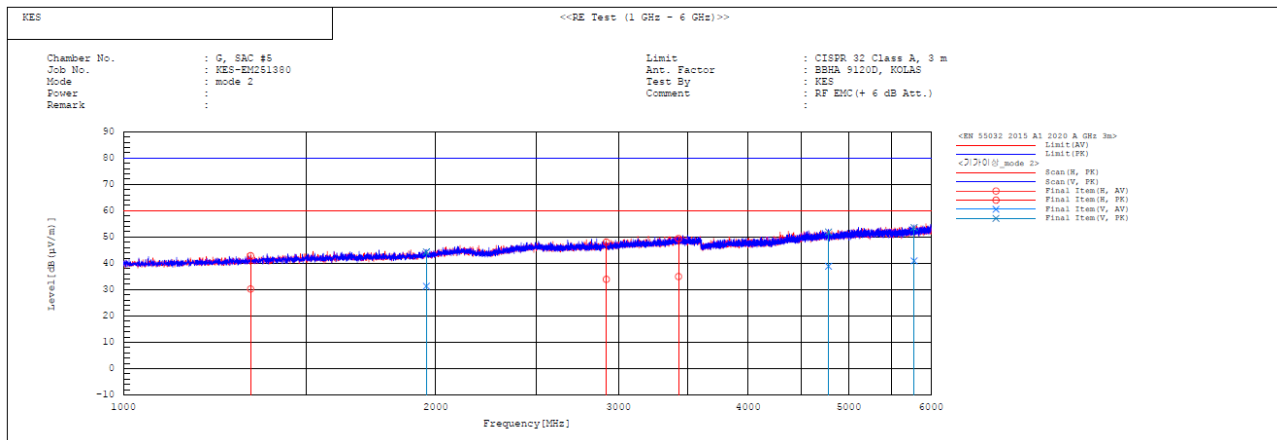
■ mode 1

**Final Result**

No.	Frequency [MHz]	Pol	Reading AV [dB (μV)]	Reading PK [dB (μV)]	c.f [dB (1/m)]	Result PK [dB (μV/m)]	Limit AV [dB (μV/m)]	Limit PK [dB (μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	1449.500	V	29.3	41.9	0.9	42.8	60.0	80.0	29.8	37.2	100.0	129.6	
2	1995.497	V	28.9	42.3	3.0	45.3	60.0	80.0	28.1	34.7	100.0	225.8	
3	2926.279	H	27.7	41.6	6.2	47.8	60.0	80.0	26.1	32.2	100.0	63.0	
4	3595.033	V	27.6	42.6	7.4	50.0	60.0	80.0	25.0	30.0	100.0	359.2	
5	4853.212	V	27.0	39.5	12.0	51.5	60.0	80.0	21.0	28.5	100.0	280.3	
6	5651.799	V	26.2	39.5	13.8	53.3	60.0	80.0	20.0	26.7	100.0	2.2	



mode 2



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	1326.500	H	30.0	42.7	0.2	42.9	60.0	80.0	29.8	37.1	100.0	3.9	
2	1959.266	V	28.4	41.4	2.9	44.3	60.0	80.0	28.7	35.7	100.0	180.8	
3	2920.300	H	27.7	41.9	6.2	48.1	60.0	80.0	26.1	31.9	100.0	152.1	
4	3426.638	H	27.9	42.3	7.1	49.4	60.0	80.0	25.0	30.6	100.0	11.9	
5	4781.000	V	27.2	40.2	11.7	51.9	60.0	80.0	21.1	28.1	100.0	1.0	
6	5780.790	V	26.7	39.4	14.2	53.6	60.0	80.0	19.1	26.4	100.0	72.9	

◆ Calculation

Result(PK/CAV) [dB(μV/m)] = (Reading(PK/CAV)[dB(μV)] + c.f[dB(1/m)]

Margin(PK/CAV)[dB] = Limit[dB(μV/m)] - Result(PK/CAV) [dB(μV/m)]

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

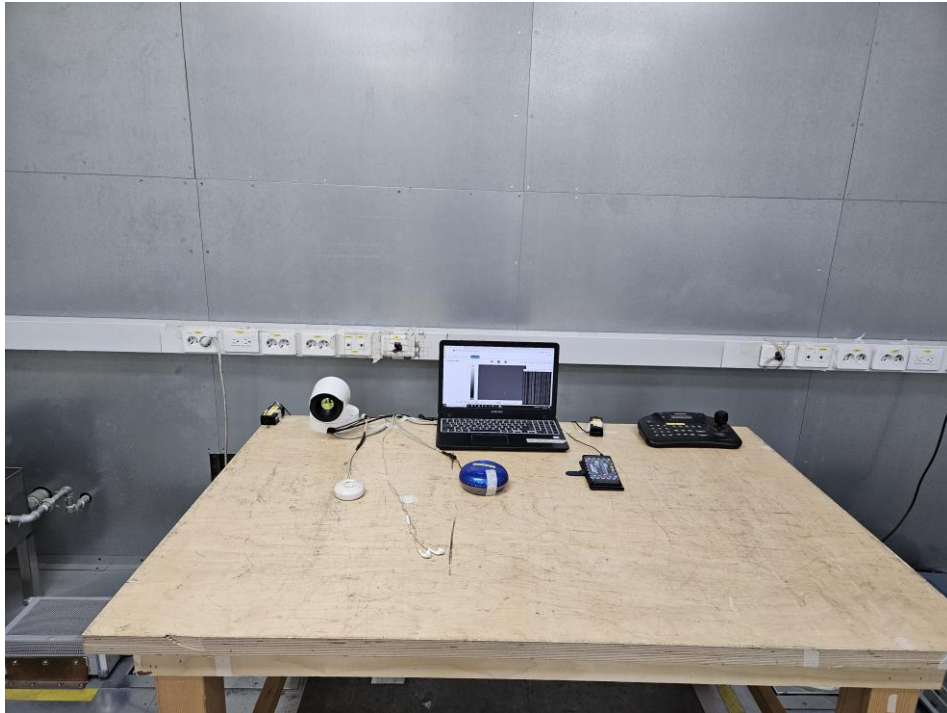
Limit(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

■ mode 1





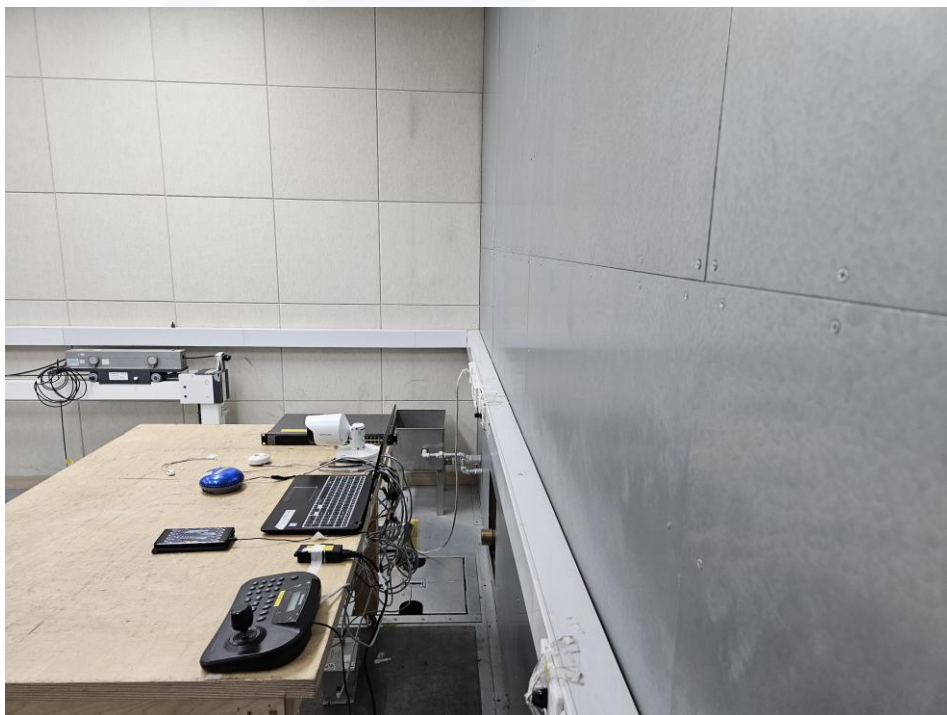
Conducted Emissions at Telecommunication Ports

■ mode 1





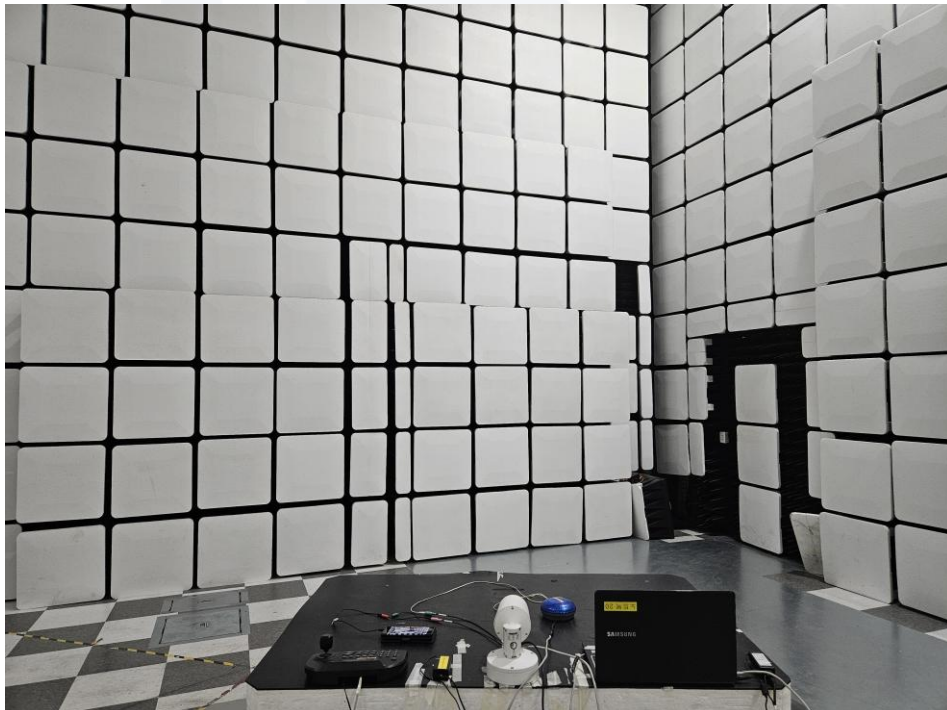
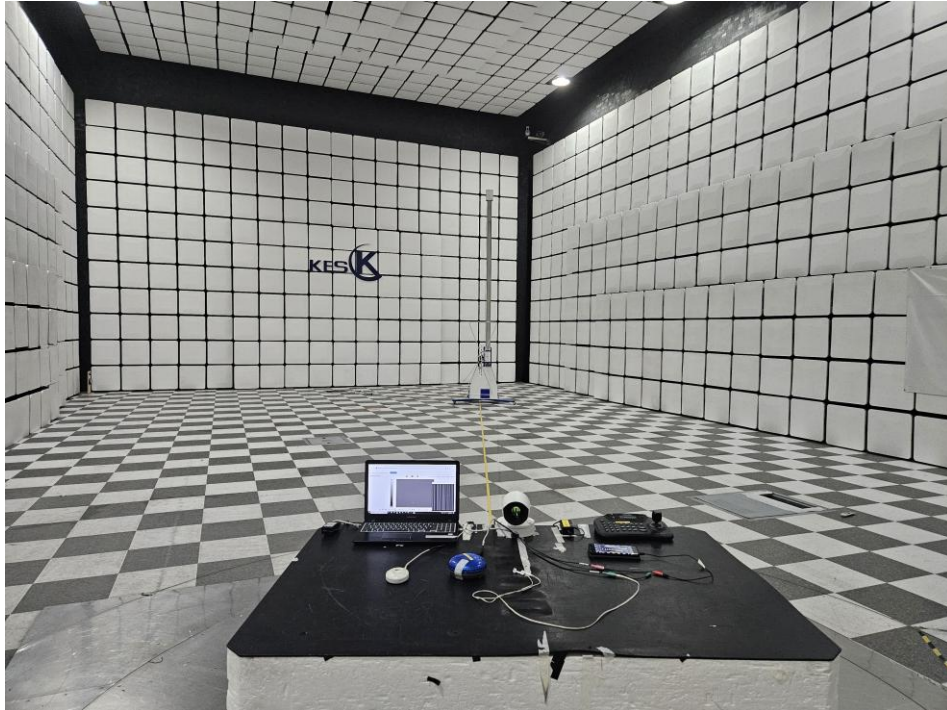
■ mode 2





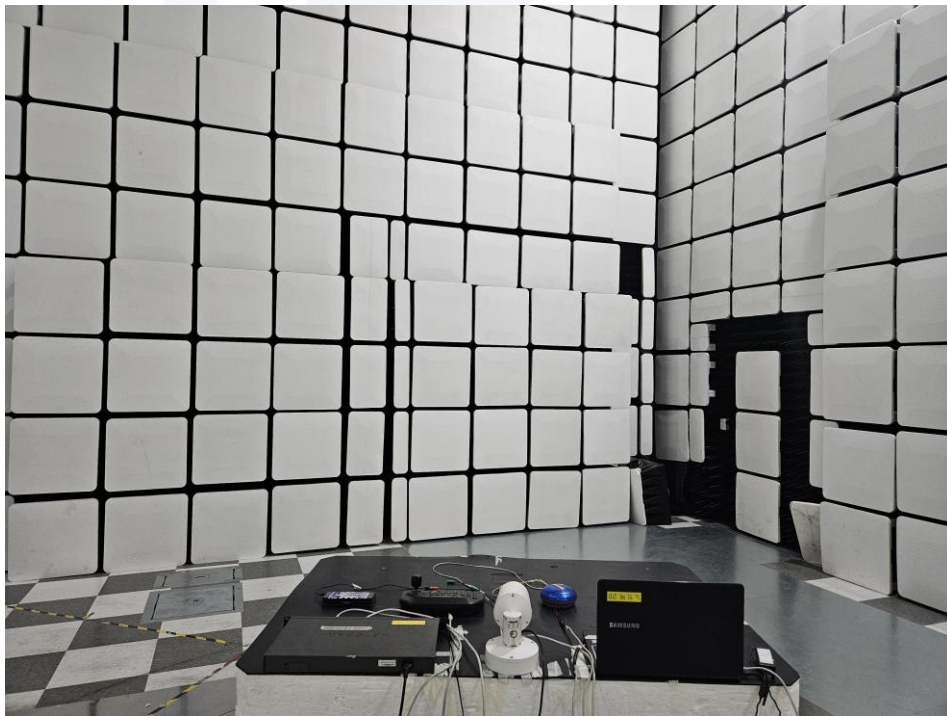
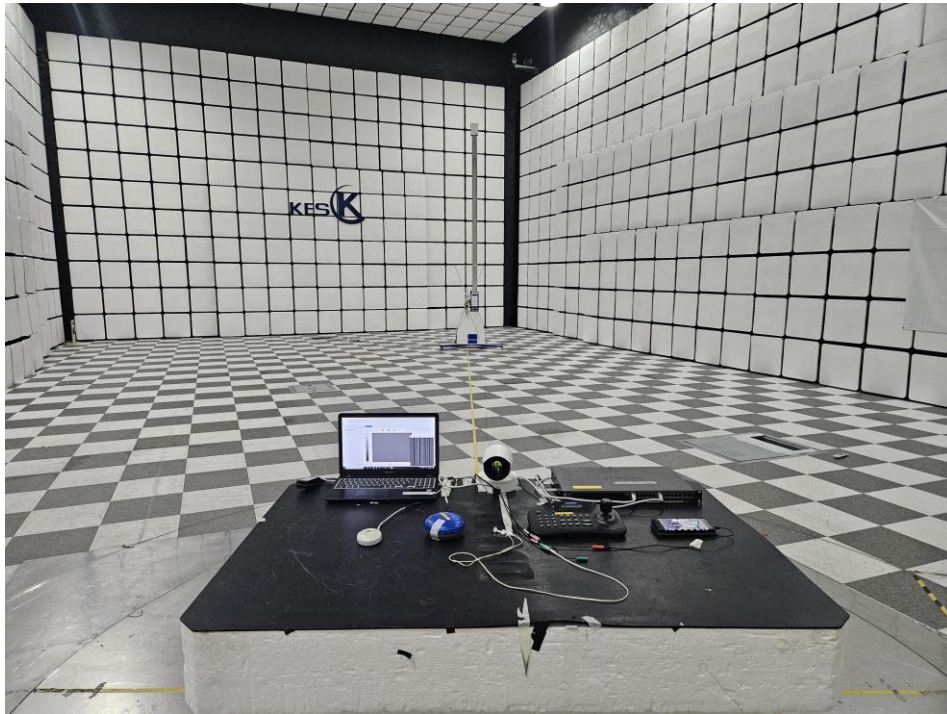
Radiated Electric Field Emissions(Below 1 GHz)

■ mode 1





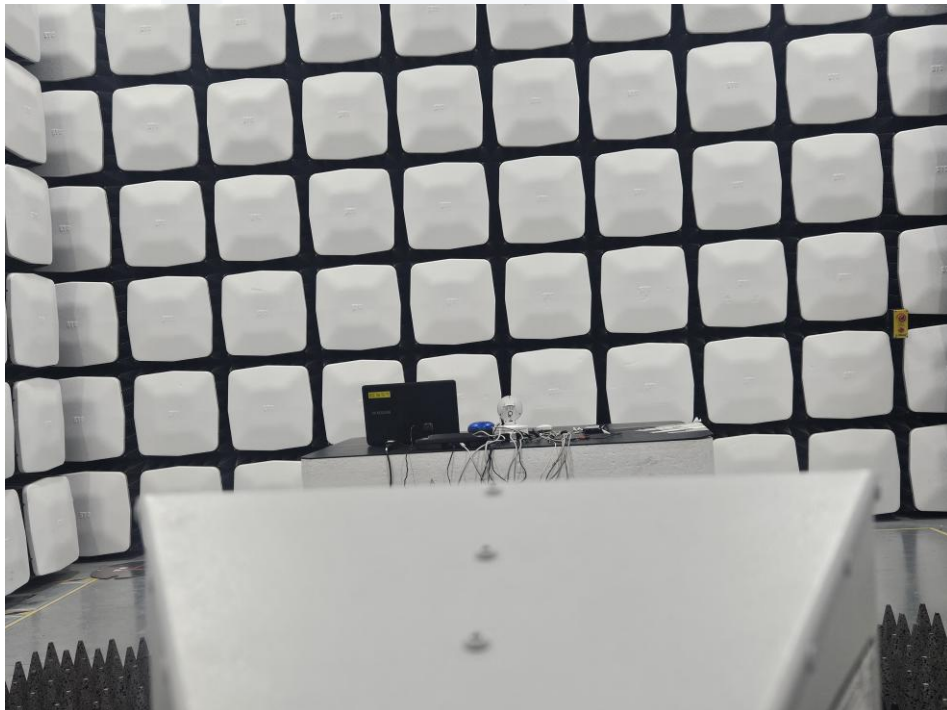
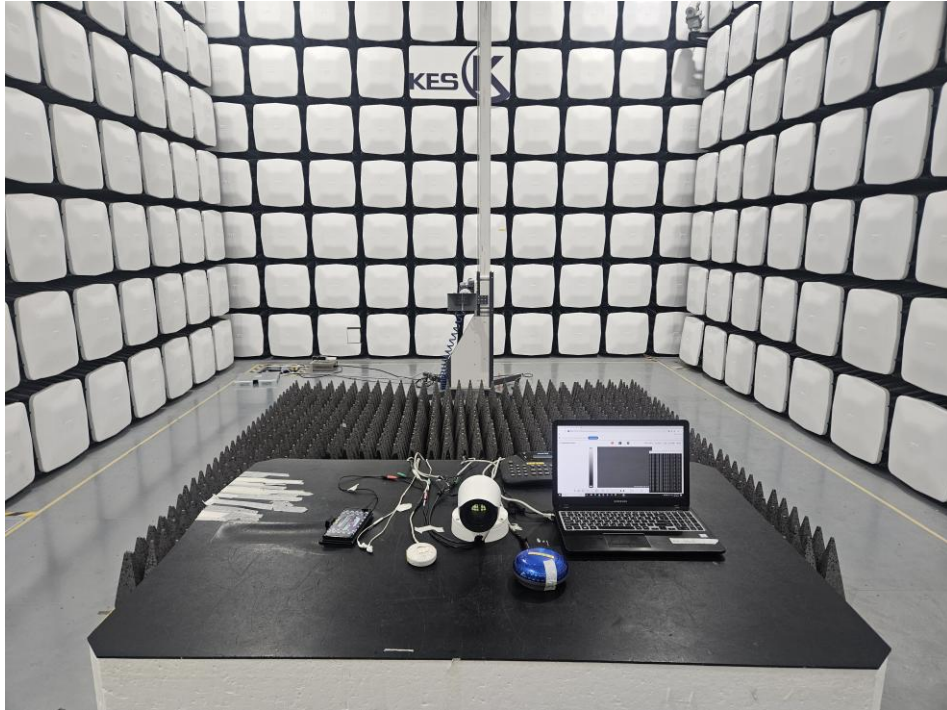
■ mode 2





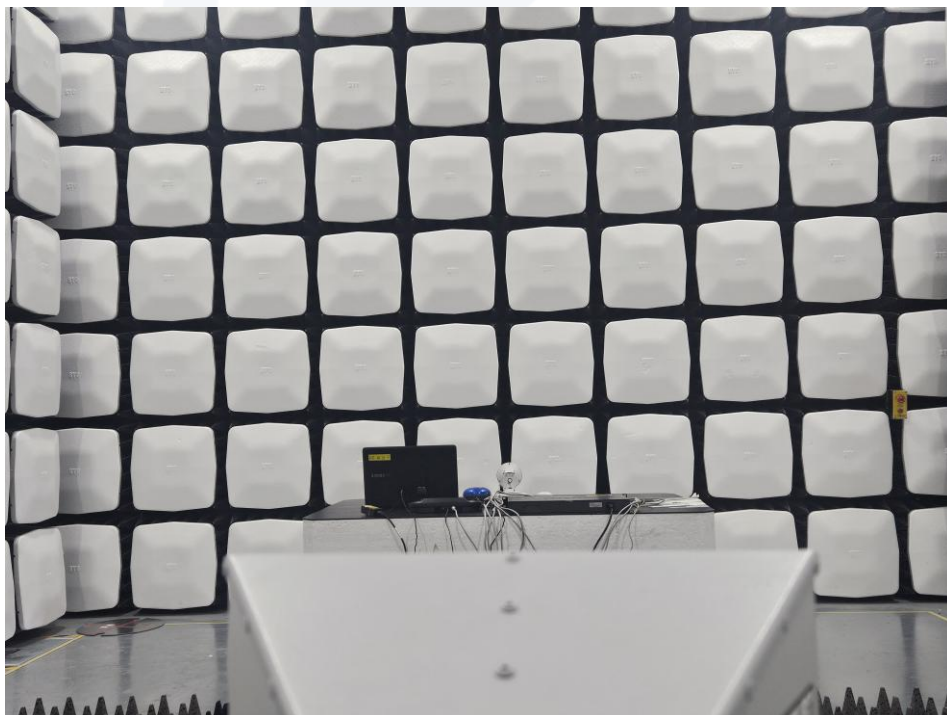
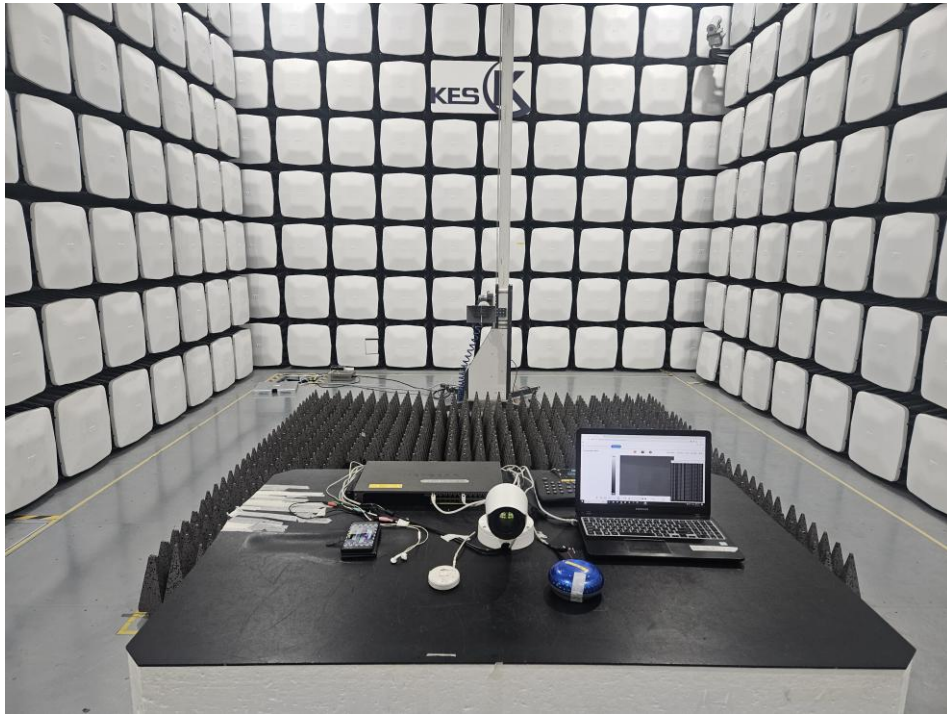
Radiated Electric Field Emissions(Above 1 GHz)

■ mode 1





■ mode 2





EUT External Photographs

(Top)



(Bottom)





EUT Internal Photographs

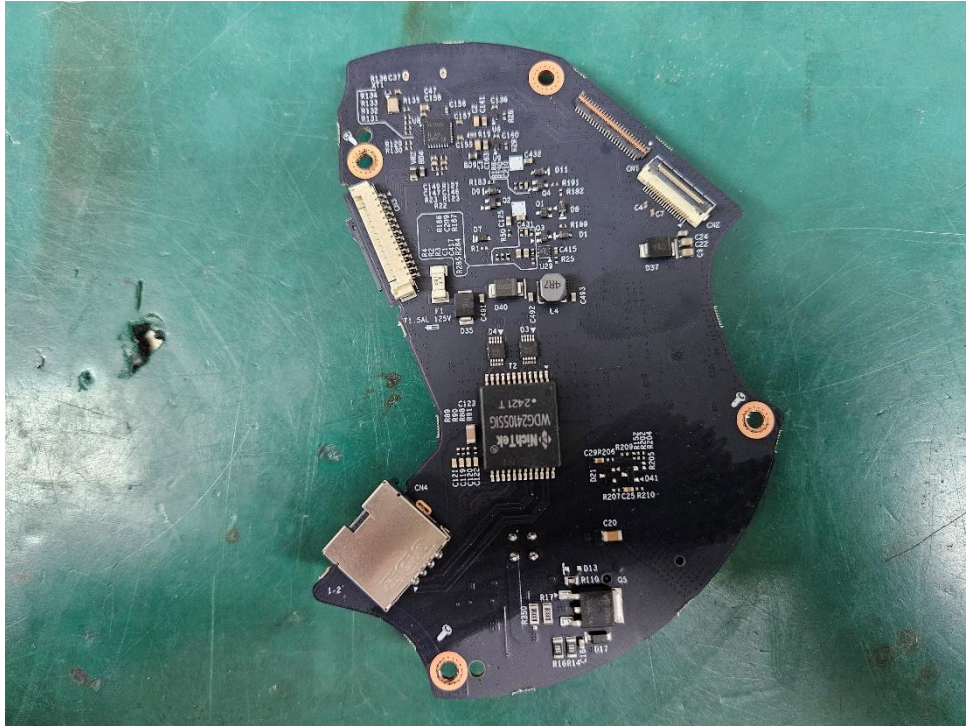
(Internal View)



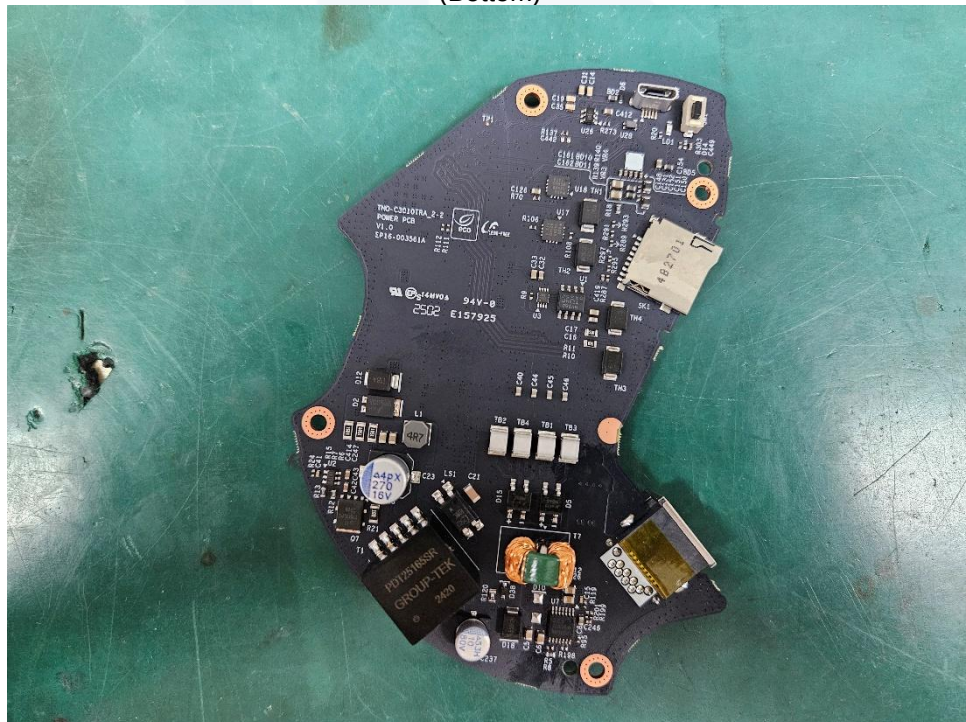


EUT Internal View – PCB 1

(Top)



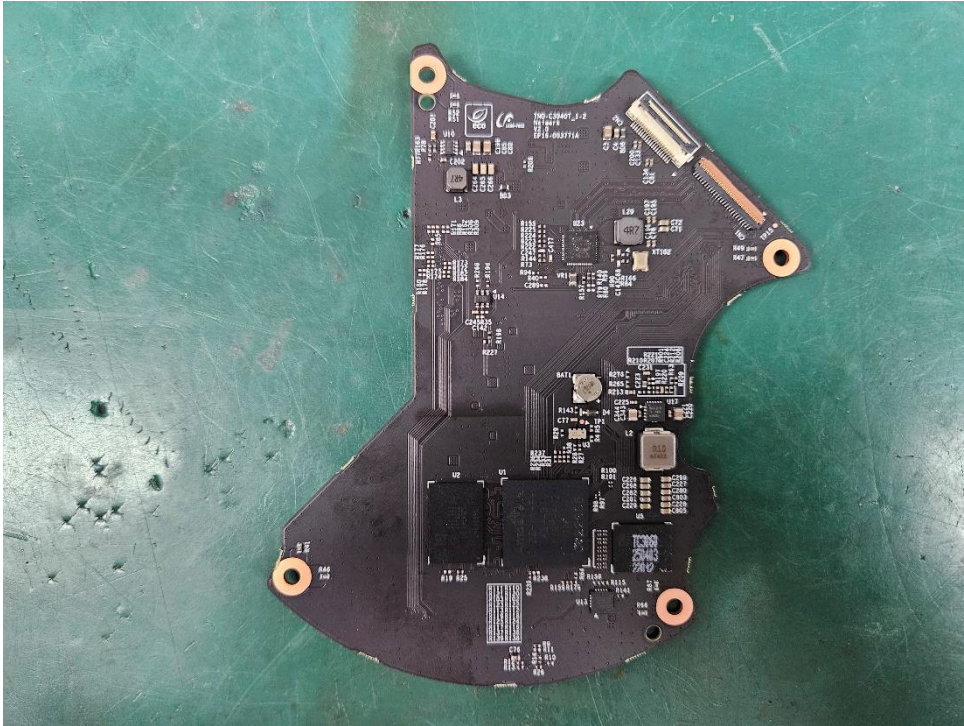
(Bottom)



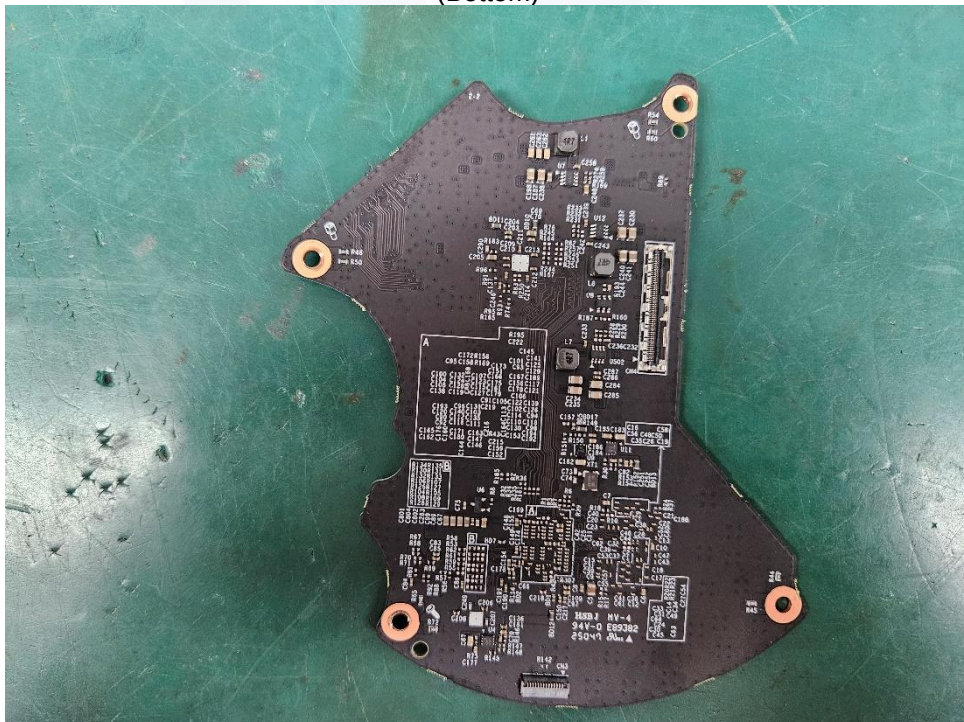


EUT Internal View – PCB 2

(Top)



(Bottom)



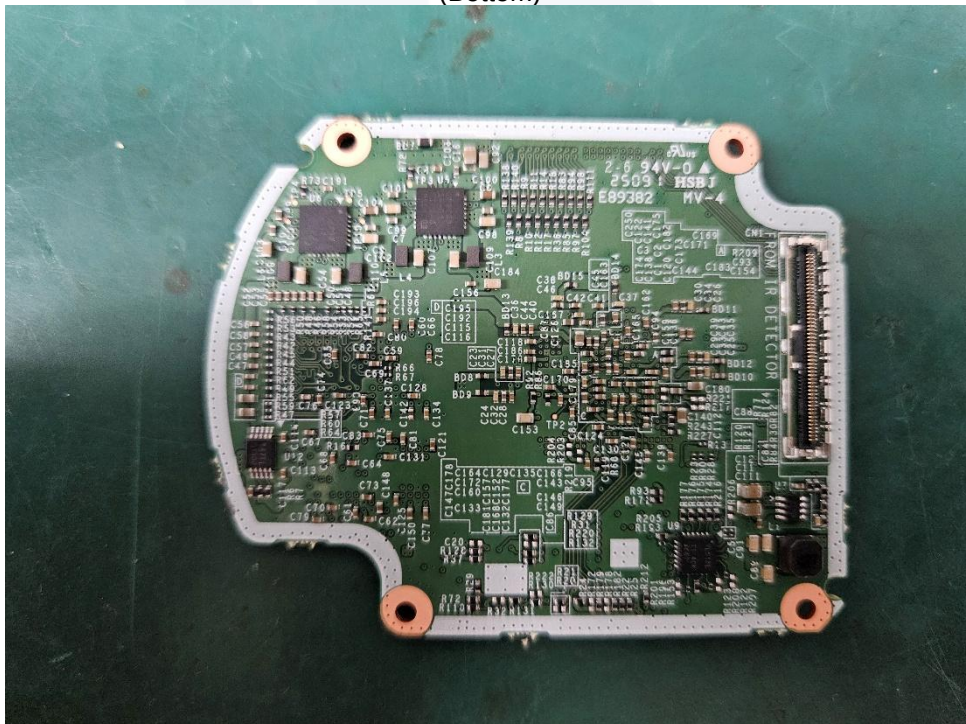


EUT Internal View – PCB 3

(Top)



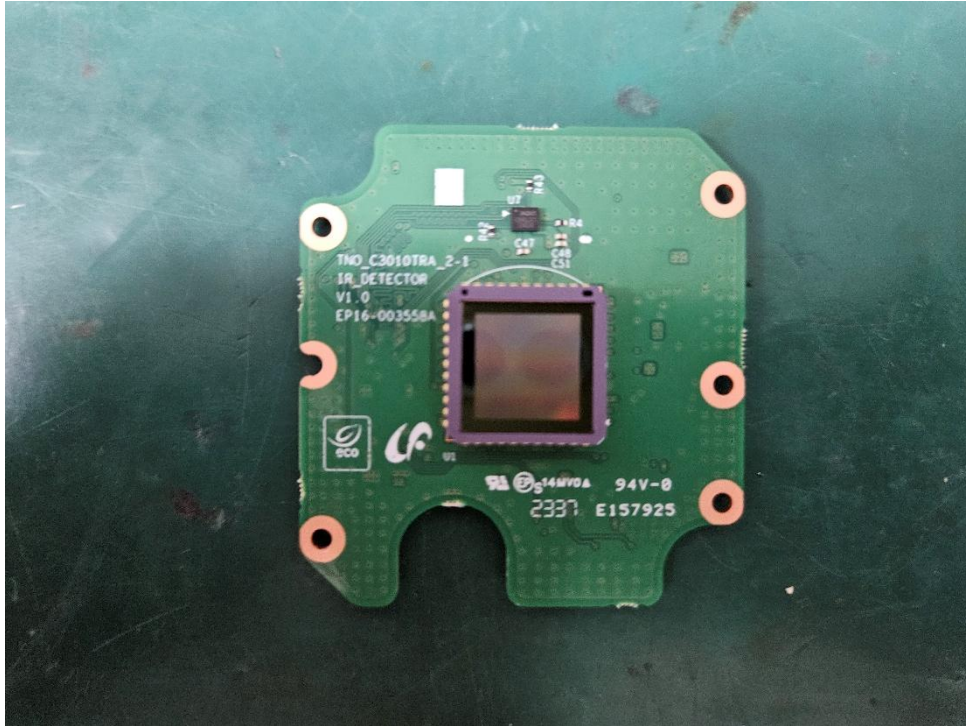
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EUT Internal View – PCB 4

(Top)



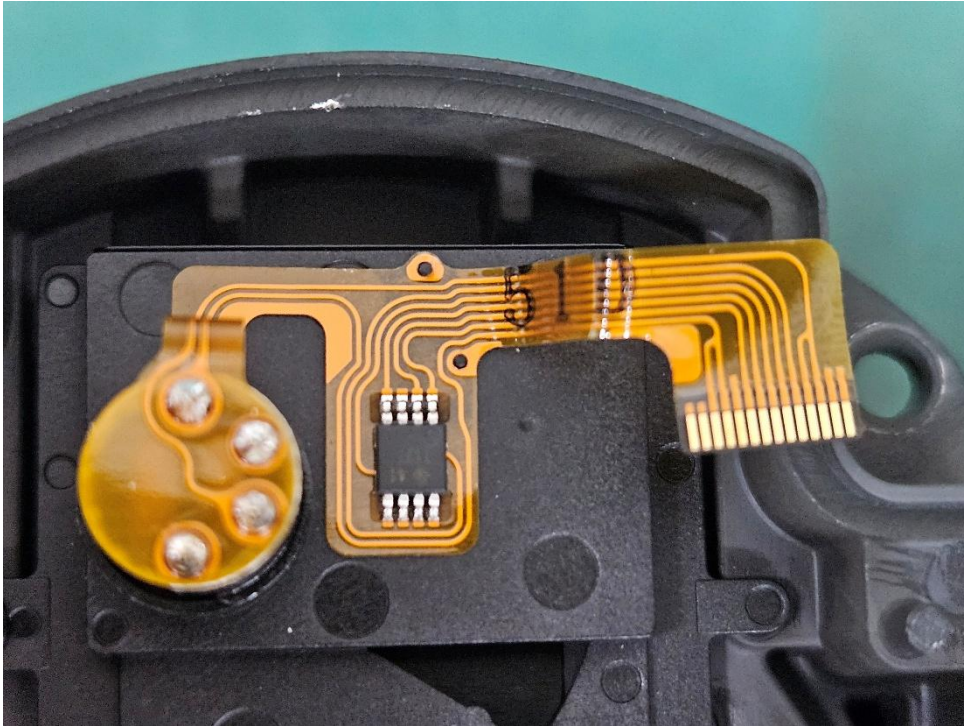
(Bottom)





EUT Internal View – PCB 5

(Top)



The End.